

MCQ

1. What will be the output of the following code snippet?

```
def func(a, b):  
    return b if a == 0 else func(b % a, a)  
print(func(30, 75))
```

- a) 10
- b) 20
- c) 15
- d) 0

Answer: Option (c)15

2. numbers = (4, 7, 19, 2, 89, 45, 72, 22)

```
sorted_numbers = sorted(numbers)  
even = lambda a: a % 2 == 0  
even_numbers = filter(even, sorted_numbers)  
print(type(even_numbers))
```

- a) Int
- b) Filter
- c) List
- d) Tuple

ANSWER: Option (b): Filter

3) As what datatype are the *args stored, when passed into

- a) Tuple
- b) List
- c) Dictionary
- d) none

Answer: Option A Tuple

4) set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

print(len(set1 + set2 + set3))

a) 105

b) 270

c) 0

d) Error

Answer: Option D Error

5) What keyword is used in Python to raise exceptions?

a) raise

b) try

c) goto

d) except

Answer: Option A Raise

6) Which of the following modules need to be imported to handle date time computations in Python?

a) timdate

b) date

c) datetime

d) time

Answer: Option C datetime

7) What will be the output of the following code snippet?

print(43 + (7 + 5)**(1 + 1))**

a) 248

b) 169

- c) 208
- d) 233

Answer: Option C 208

8) Which of the following functions converts date to corresponding time in Python?

- a) strptime
- b) strftime
- c) both a) and b)
- d) None

Answer: Option b) strftime

9) The python tuple is _____ in nature.

- a) mutable
- b) immutable
- c) unchangeable
- d) none

Answer: Option b) immutable

10) The ____ is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop.

- A. range()
- B. set()
- C. dictionary{}
- D. None of the mentioned above

Answer: Option A. range ()

11 Amongst which of the following is a function which does not have any name?

- A. Del function
- B. Show function
- C. Lambda function
- D. None of the mentioned above

Answer: Option C. Lambda function

12 The module Pickle is used to ____.

- A. Serializing Python object structure
- B. De-serializing Python object structure
- C. Both A and B
- D. None of the mentioned above Question

Answer: Option C. Both A and B

13 Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

- A. set() method
- B. dump() method
- C. load() method
- D. None of the mentioned above

Answer: Option B. dump() method

14 Amongst which of the following is / are the method used to unpickling data from a binary file?

- A. load()
- B. set() method
- C. dump() method
- D. None of the mentioned above

Answer: Option A. load() method

15. A text file contains only textual information consisting of ____.

- A. Alphabets
- B. Numbers
- C. Special symbols
- D. All of the mentioned above

Answer: Option D. All of the mentioned above

16 Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)

```
captains = { "Enterprise": "Picard",  
            "Voyager": "Janeway",  
            "Defiant": "Sisko", }
```

Enterprise Picard,

Voyager Janeway

Defiant Sisko

- a)

```
for ship, captain in captains.items():  
    print(ship, captain)
```
- b)

```
for ship in captains:  
    print(ship, captains[ship])
```
- c)

```
for ship in captains:
```

```
print(ship, captains)
```

d) both a and b

Answer: Option d) both a and b

17) Which of the following lines of code will create an empty dictionary named captains?

a) captains = {dict}

b) type(captains)

c) captains.dict()

d) captains = {}

Answer: Option d) captains = {}

18) Now you have your empty dictionary named captains. It's time to add some data!

Specifically, you want to add the key-value pairs "Enterprise": "Picard", "Voyager": "Janeway", and "Defiant": "Sisko".

Which of the following code snippets will successfully add these key-value pairs to the existing captains dictionary?

- a)

```
captains{"Enterprise" = "Picard"}
captains{"Voyager" = "Janeway"}

captains{"Defiant" = "Sisko"}
```
- b)

```
captains["Enterprise"] = "Picard"
captains["Voyager"] = "Janeway"
captains["Defiant"] = "Sisko"
```
- c)

```
captains = { "Enterprise": "Picard",
             "Voyager": "Janeway",
             "Defiant": "Sisko", }
```
- d) None of the above

Answer: Option b) captains["Enterprise"] = "Picard"

```
captains["Voyager"] = "Janeway"
```

```
captains["Defiant"] = "Sisko"
```

19) You're really building out the Federation Starfleet now!

Here's what you have:

```
captains = { "Enterprise": "Picard",  
            "Voyager": "Janeway",  
            "Defiant": "Sisko",  
            "Discovery": "unknown", }
```

Now, say you want to display the ship and captain names contained in the dictionary, but you also want to provide some additional context. How could you do it?

- a) for item in captains.items():

 print(f"The [ship] is captained by [captain].")
- b) for ship, captain in captains.items():
 print(f"The {ship} is captained by {captain}.")
- c) for captain, ship in captains.items():
 print(f"The {ship} is captained by {captain}.")
- d) All are correct

Answer: Option b) for ship, captain in captains.items():

```
print(f"The {ship} is captained by {captain}.")
```

20) You've created a dictionary, added data, checked for the existence of keys, and iterated over it with a for loop. Now you're ready to delete a key from this dictionary:

```
captains = { "Enterprise": "Picard",  
            "Voyager": "Janeway",  
            "Defiant": "Sisko",  
            "Discovery": "unknown", }
```

What statement will remove the entry for the key "Discovery"?

- a) del captains
- b) captains.remove()
- c) del captains["Discovery"]
- d) captains["Discovery"].pop()

Answer: Option c) del captains["Discovery"]

